## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

Claims 1-19. (Cancelled)

- 20. (Original) A DNAzyme which specifically cleaves EGR-1 mRNA, the DNAzyme comprising
- (i) a catalytic domain which cleaves mRNA at a purine:pyrimidine cleavage site;
- (ii) a first binding domain continuous with the 5' end of the catalytic domain; and
- (iii) a second binding domain continuous with the 3' end of the catalytic domain,

wherein the binding domains are sufficiently complementary to the two regions immediately flanking a purine:pyrimidine cleavage site within the region of EGR-1 mRNA corresponding to nucleotides 168-332 as shown in SEQ ID No: 1, such that the DNAzyme cleaves the EGR-1 mRNA.

21. (Original) A DNAzyme as claimed in claim 20 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.

- 22. (Original) A DNAzyme as claimed in claim 20 in which the cleavage site is selected from the group consisting of
- (i) the GU site corresponding to nucleotides 198-
- (ii) the GU site corresponding to nucleotides 200-201;
- (iii) the GU site corresponding to nucleotides 264-265;
- (iv) the AU site corresponding to nucleotides 271-272;
- (v) the AU site corresponding to nucleotides 301-302;
- (vi) the GU site corresponding to nucleotides 303-304; and
- (vii) the AU site corresponding to nucleotides 316-317.
- 23. (Original) A DNAzyme as claimed in claim 22 in which the cleavage site is the AU site corresponding to nucleotides 271-272.
- 24. (Original) A DNAzyme as claimed in claim 22 wherein the 3'-end nucleotide residue is inverted in the

binding domain contiguous with the 3'-end of the catalytic domain.

- 25. (Original) A DNAzyme as claimed in claim 23 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 26. (Original) A-DNAzyme as claimed in claim 20 in which the catalytic domain has the nucleotide sequence GGCTAGCTACAACGA [SEQ. ID. NO:2].
- 27. (Original) A DNAzyme as claimed in claim 26 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 28. (Original) A DNAzyme as claimed in claim 26 in which the cleavage site is selected from the group consisting of
- (i) the GU site corresponding to nucleotides 198199;
- (ii) the GU site corresponding to nucleotides 200-201;
- (iii) the GU site corresponding to nucleotides 264-265;

- (iv) the AU site corresponding to nucleotides 271-272;
- (v) the AU site corresponding to nucleotides 301-302;
- (vi) the GU site corresponding to nucleotides 303-304; and
- (vii) the AU site corresponding to nucleotides 316-317.
- 29. (Original) A DNAzyme as claimed in claim 28 in which the cleavage site is the AU site corresponding to nucleotides 271-272.
- 30. (Original) A DNAzyme as claimed in claim 28 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 31. (Original) A DNAzyme as claimed in claim 29 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 32. (Original) A DNAzyme as claimed in claim 20 wherein each binding domain is nine or more nucleotides in length.

- 33. (Original) A DNAzyme as claimed in claim 32 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 34. (Original) A DNAzyme as claimed in claim 32 in which the cleavage site is selected from the group consisting of
- (i) the GU site corresponding to nucleotides 198199;
- (ii) the GU site corresponding to nucleotides 200-201;
- (iii) the GU site corresponding to nucleotides 264-265;
- (iv) the AU site corresponding to nucleotides 271-272;
- (v) the AU site corresponding to nucleotides 301-302;
- (vi) the GU site corresponding to nucleotides 303-304; and
- (vii) the AU site corresponding to nucleotides 316-317.
- 35. (Original) A DNAzyme as claimed in claim 34 in which the cleavage site is the AU site corresponding to nucleotides 271-272.

- 36. (Original) A DNAzyme as claimed in claim 34 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 37. (Original) A DNAzyme as claimed in claim 35 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 38. (Original) A DNAzyme as claimed in claim 32 in which the catalytic domain has the nucleotide sequence GGCTAGCTACAACGA [SEQ ID NO: 2].
- 39. (Original) A DNAzyme as claimed in claim 38 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 40. (Original) A DNAzyme as claimed in claim 38 in which the cleavage site is selected from the group consisting of
- (i) the GU site corresponding to nucleotides 198199;
- (ii) the GU site corresponding to nucleotides 200-201;

- (iii) the GU site corresponding to nucleotides 264-265;
- (iv) the AU site corresponding to nucleotides 271-272;
- (v) the AU site corresponding to nucleotides 301-302;
- (vi) the GU site corresponding to nucleotides 303-304; and
- (vii) the AU site corresponding to nucleotides 316-317.
- 41. (Original) A DNAzyme as claimed in claim 40 in which the cleavage site is the AU site corresponding to nucleotides 271-272.
- 42. (Original) A DNAzyme as claimed in claim 40 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 43. (Original) A DNAzyme as claimed in claim 41 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.

NO: 6);

8);

- 7);
  (vi) 5'-gcggggacaGGCTAGCTACAACGAcagctgcat(SEQ ID NO:

(v) 5'-ccgctgccaGGCTAGCTACAACGAcccggacgt (SEQ ID NO:

- (vii) 5'-cageggggaGGCTAGCTACAACGAatcagetge (SEQ ID NO: 9); and
- (viii) 5'-ggtcagagaGGCTAGCTACAACGActgcagcgg(SEQ ID NO: 10).
- 45. (Original) A DNAzyme as claimed in claim 44 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.

- 46. (Original) A DNAzyme as claimed in claim 44 which has the sequence:
  - 5'-ccgcggccaGGCTAGCTACAACCAcctggacga (SEQ ID NO: 6).
- 47. (Original) A DNAzyme as claimed in claim 46 wherein the 3'-end nucleotide residue is inverted in the binding domain contiguous with the 3'-end of the catalytic domain.
- 48. (Previously Presented) A pharmaceutical composition comprising a DNAzyme according to <u>claimsclaim</u> 20 and a pharmaceutically acceptable carrier.

Claims 49-58. (Cancelled)

- 59. (Withdrawn) An angioplastic stent for inhibition of the onset of restenosis, which comprises an angioplastic stent operably coated with a prophylactially effective dose of DNAzyme according to claim 20.
- of restenosis in a subject undergoing angioplasty, which comprises topically administering a prophylactically effective dose of a pharmaceutical composition according to claim 48 to the subject at around the time of the angioplasty.

- 61. (Withdrawn) A method according to claim 60 in which the pharmaceutical composition is administered by catheter.
- 62. (Withdrawn) A method for inhibiting the onset of restenosis in a subject undergoing angioplasty, which comprises topically administering a stent according to claim 58 to the subject at around the time of the angioplasty.